FIG.1

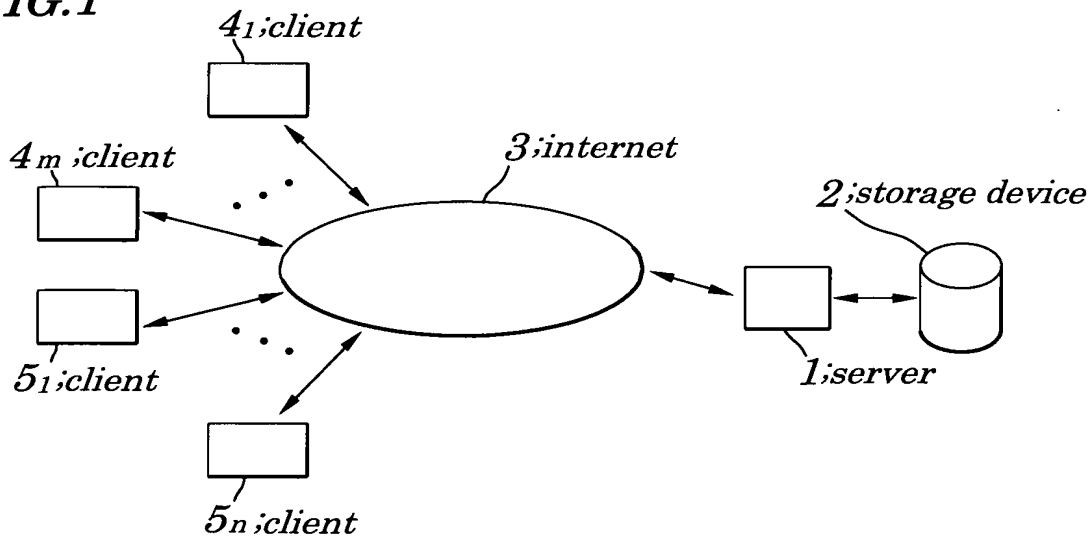

FIG.2

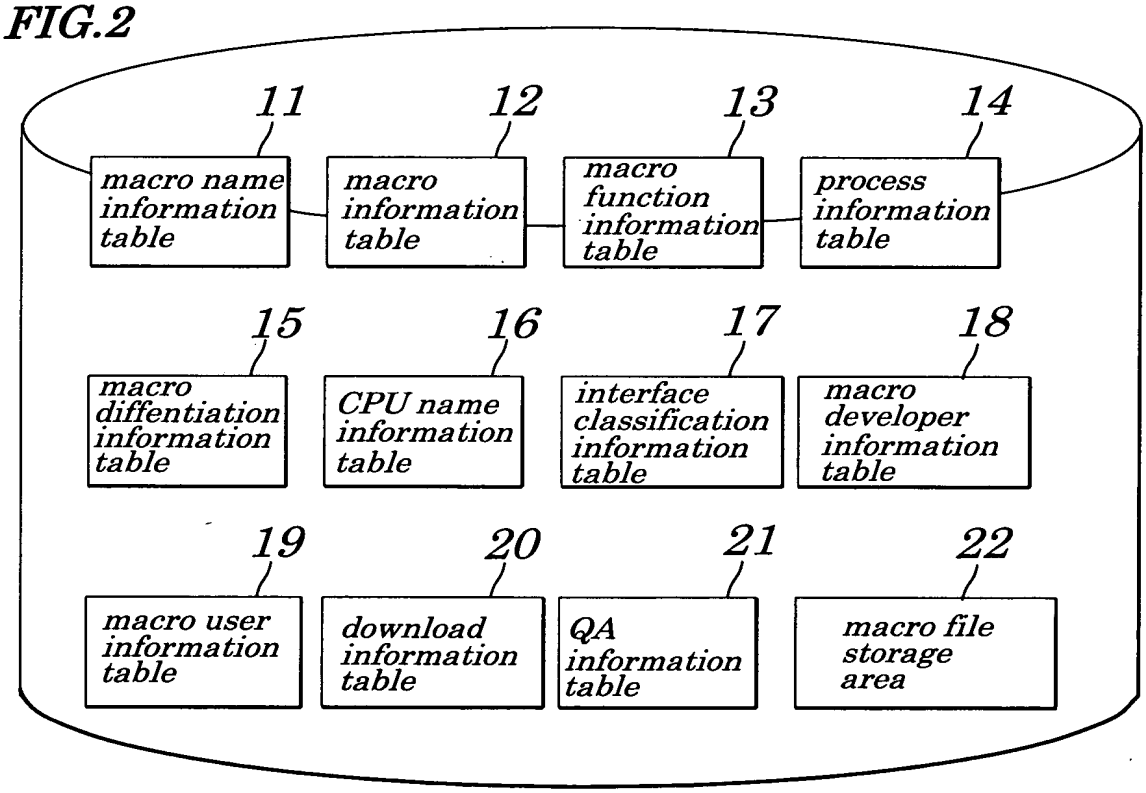

FIG.3

11

title	variable identifier	type	remark
macro code	MacroCode	INT	
macro name	MacroName	TEXT	
developer name	MacroDeveloperName	TEXT	

FIG. 4

12;macro information table

title	variable identifier	type	remark
macro code	MacroCode	INT	
developer name	MacroDeveloperName	TEXT	
process code	ProcessCode	INT	
file name	FileName	TEXT	
macro call name(Japanese)	MacroCallNameJ	TEXT	
macro call name(English)	MacroCallNameE	TEXT	
macro differentiation	MacroDifferentiation	INT	0=cell base soft macro 1=cell base hard macro 2=manual hard macro
macro function code	MacroFunctionCode	INT	
CPU name code	CPUNameCode	INT	
I/F classification code	InterfacClassificationCode	INT	
function outline(Japanese)	FunctionOutlineJ	TEXT	
function outline(English)	FunctionOutlineE	TEXT	
items of attention and restriction(Japanese)	AttentionRestrictionItemJ	TEXT	
items of attention and restriction(English)	AttentionRestrictionItemE	TEXT	
related macros	RelationMacro	TEXT	list of parent macro names
planned release year	ReleasePlanDateY	INT	
planned release month	ReleasePlanDateM	INT	
planned release date	ReleasePlanDateD	INT	
present version	Version	TEXT	
data updating year	DataUpdateDateY	INT	
data updating month	DataUpdateDateM	INT	
data updating date	DataUpdateDateD	INT	
class of quality	QualityClass	INT	0=general assurance level 1=non-operational condition level 2=operational condition level 3=non-assured level 4=yet-to-be-completed level
size X	SizeX	TEXT	
size Y	SizeY	TEXT	
count of Al wiring layers	AlLayerCount	INT	
count of grids	GridCount	INT	
count of cells	CellCount	INT	
count of Tr	TrCount	INT	
action frequency	ActionFrequency	TEXT	
detection rate	MalfunctionDetectionRate	TEXT	
related QA numbers	RelationQANumber	INT	
memory capacity	MemoryCapacity	TEXT	
width of memory bus	MemoryBusWidth	TEXT	
access speed to memory	MemoryAccessSpeed	TEXT	
registered year	RegistrationDateY	INT	
registered month	RegistrationDateM	INT	
registered date	RegistrationDateD	INT	
final renewal year	FinalRenewalDateY	INT	
final renewal month	FinalRenewalDateM	INT	
final renewal date	FinalRenewalDateD	INT	
security level	security level	INT	0;All macro users can browse. 1;Only macro users having concluded a special contract can browse.

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FIG.5

13;macro function information table

title	*variable identifier*	*type*	*remark*
macro function code	*MacroFunctionCode*	*INT*	
macro function name (in Japanese)	*MacroFunctionNameJ*	*TEXT*	
macro function name (in English)	*MacroFunctionNameE*	*TEXT*	

FIG.6

14;process information table

title	*variable identifier*	*type*	*remark*
process code	*ProcessCode*	*INT*	
process name	*ProcessName*	*TEXT*	

FIG.7

15;macro differentiation information table

title	*variable identifier*	*type*	*remark*
macro differentiation	*MacroDifferentiation*	*INT*	
name of macro differentiation (in English)	*MacroDifferentiationNameE*	*TEXT*	
name of macro differentiation(in Japanese)	*MacroDifferentiationNameJ*	*TEXT*	

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FIG.8

16;CPU name information table

title	variable identifier	type	remark
code of CPU name	CPUNameCode	INT	
CPU name	CPUName	TEXT	

FIG.9

17;interface classification information table

title	variable identifier	type	remark
I/F classification code	InterfaceClassificationCode	INT	
I/F classification name	InterfaceClassificationName	TEXT	

FIG.10

18;macro developer information table

title	variable identifier	type	remark
macro developer ID	MacrodeveloperID	INT	
macro developer name	MacroDeveloperName	TEXT	
password	Password	TEXT	
name (Japanese)	NameJ	TEXT	
name(English)	NameE	TEXT	
organization(Japanese)	OrganizationJ	TEXT	
organization(English)	OrganizationE	TEXT	
post mail address	PMail	TEXT	
telephone	Telnet	TEXT	
E-mail address	EMail	TEXT	

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FIG.11

19: *macro user information table*

title	*variable identifier*	*type*	*remark*
name of product developer	*ProductionDeveloperName*	*TEXT*	
password	*Password*	*TEXT*	
macro user name	*Name*	*TEXT*	
organization	*Organization*	*TEXT*	
post mail address	*PMail*	*TEXT*	
telephone number	*Telnet*	*TEXT*	
E-mail address	*EMail*	*TEXT*	*macros*
downloadable macro	*DownloadableMacro*	*TEXT*	*list of macro for which application has been submitted*
access level	*AccessLevel*	*INT*	*0=Macro user is allowed to browse only outlines of macro.* *1=Macro user is allowed to browse outlines and details of macro.* *2=Macro user is allowed to download macro.*

FIG.12

20: *download information table*

title	*variable identifier*	*type*	*remark*
download right request ID	*DownloadRequestID*	*INT*	
user name	*UserName*	*TEXT*	
requesting year	*RequestDateY*	*INT*	
requesting month	*RequestDateM*	*INT*	
requesting date	*RequestDateD*	*INT*	
macro name	*MacroName*	*TEXT*	
process code	*ProcessCode*	*INT*	
download scheduling year	*DownloadDateY*	*INT*	
download scheduling month	*DownloadDateM*	*INT*	
download scheduling date	*DownloadDateD*	*INT*	
action flag	*ActionFlag*	*INT*	*0=not yet processed* *5=already processed* *6=rejected*

FIG.13

21;QA information table

title	*variable identifier*	*type*	*remark*
QA code	*QACode*	*INT*	
macro code	*MacroCode*	*INT*	
process code	*ProcessCode*	*INT*	
version	*Version*	*TEXT*	
problem occurring year	*ProblemDateY*	*INT*	
problem occurring month	*ProblemDateM*	*INT*	
problem occurring date	*ProblemDateD*	*INT*	
contact year	*ContactDateY*	*INT*	
contact month	*ContactDateM*	*INT*	
contact date	*ContactDateD*	*INT*	
contact hour	*ContactTimeH*	*INT*	
contact minute	*ContactTimeM*	*INT*	
requested finish year	*FinishRequestDateY*	*INT*	
requested finish month	*FinishRequestDateM*	*INT*	
requested finish date	*FinishRequestDateD*	*INT*	
organization of users	*ContactorOrganization*	*TEXT*	
post mail of users	*ContactorPMail*	*TEXT*	
telephone number of users	*ContactorTelnet*	*TEXT*	
name of users	*ContactorName*	*TEXT*	
E-mail address of users	*ContactorEMail*	*TEXT*	
contents	*Contents*	*TEXT*	
status flag	*StatusFlag*	*INT*	*0=Question is asked,but no reply has been made.* *1=Final reply has been made.*
final report plan year	*FinalReportPlanDateY*	*INT*	
final report plan month	*FinalReportPlanDateM*	*INT*	
final report plan date	*FinalReportPlanDateD*	*INT*	
final report year	*FinalReportDateY*	*INT*	
final report month	*FinalReportDateM*	*INT*	
final report date	*FinalReportDateD*	*INT*	
answer plan flag	*AnswerPlanFlag*	*INT*	*0=No plan to make reply.* *1=Plan to make reply.*
importance flag	*ImportantFlag*	*INT*	*0=Malfunction and bug.* *1=General motification.*

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FIG.14

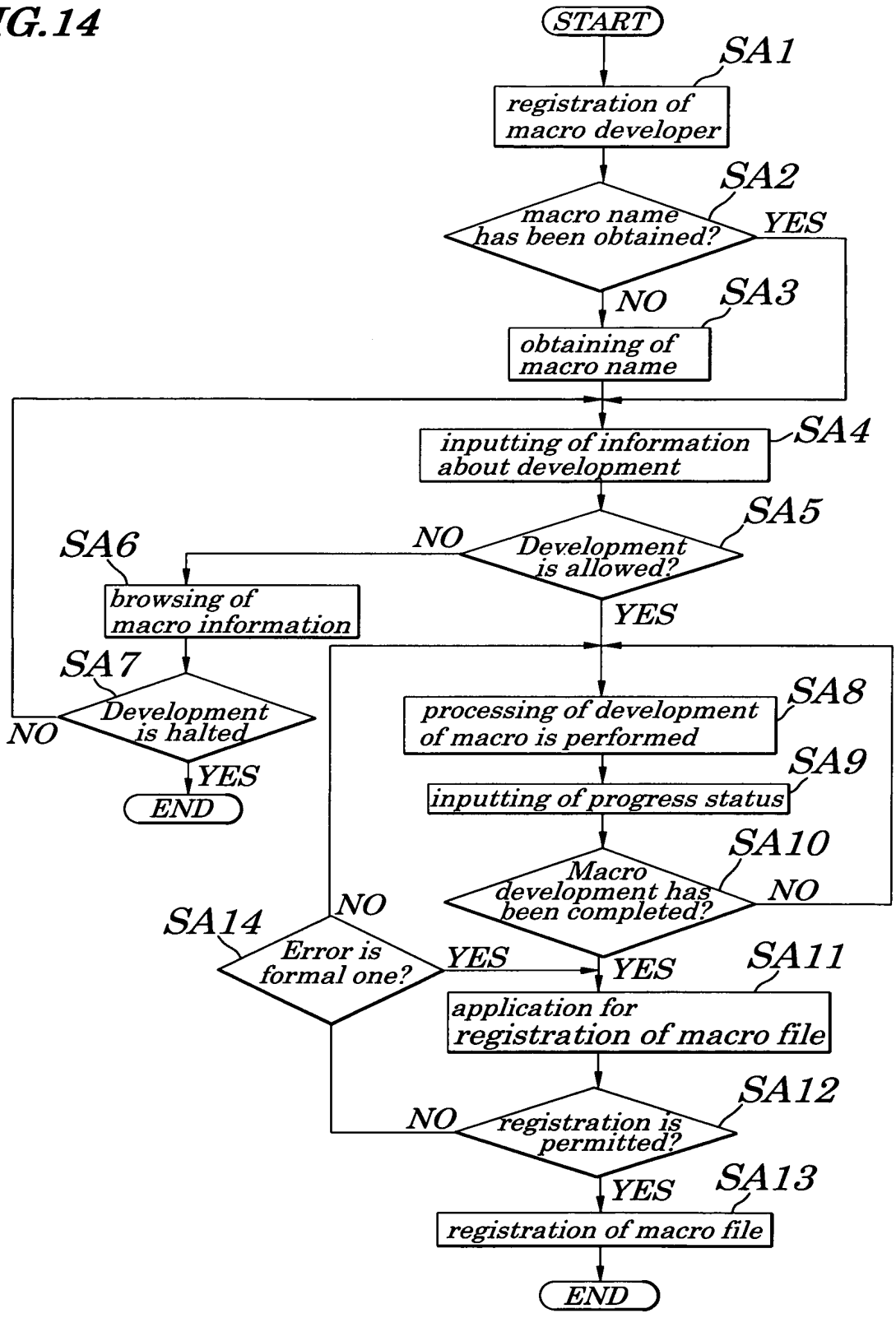
START
SA1
registration of macro developer
SA2
macro name has been obtained?
YES
NO
SA3
obtaining of macro name
inputting of information about development
SA4
SA5
Development is allowed?
NO
SA6
browsing of macro information
YES
SA7
Development is halted
NO
YES
END
SA8
processing of development of macro is performed
SA9
inputting of progress status
SA10
Macro development has been completed?
NO
YES
SA14
Error is formal one?
NO
YES
SA11
application for registration of macro file
SA12
registration is permitted?
NO
YES
SA13
registration of macro file
END

FIG.15

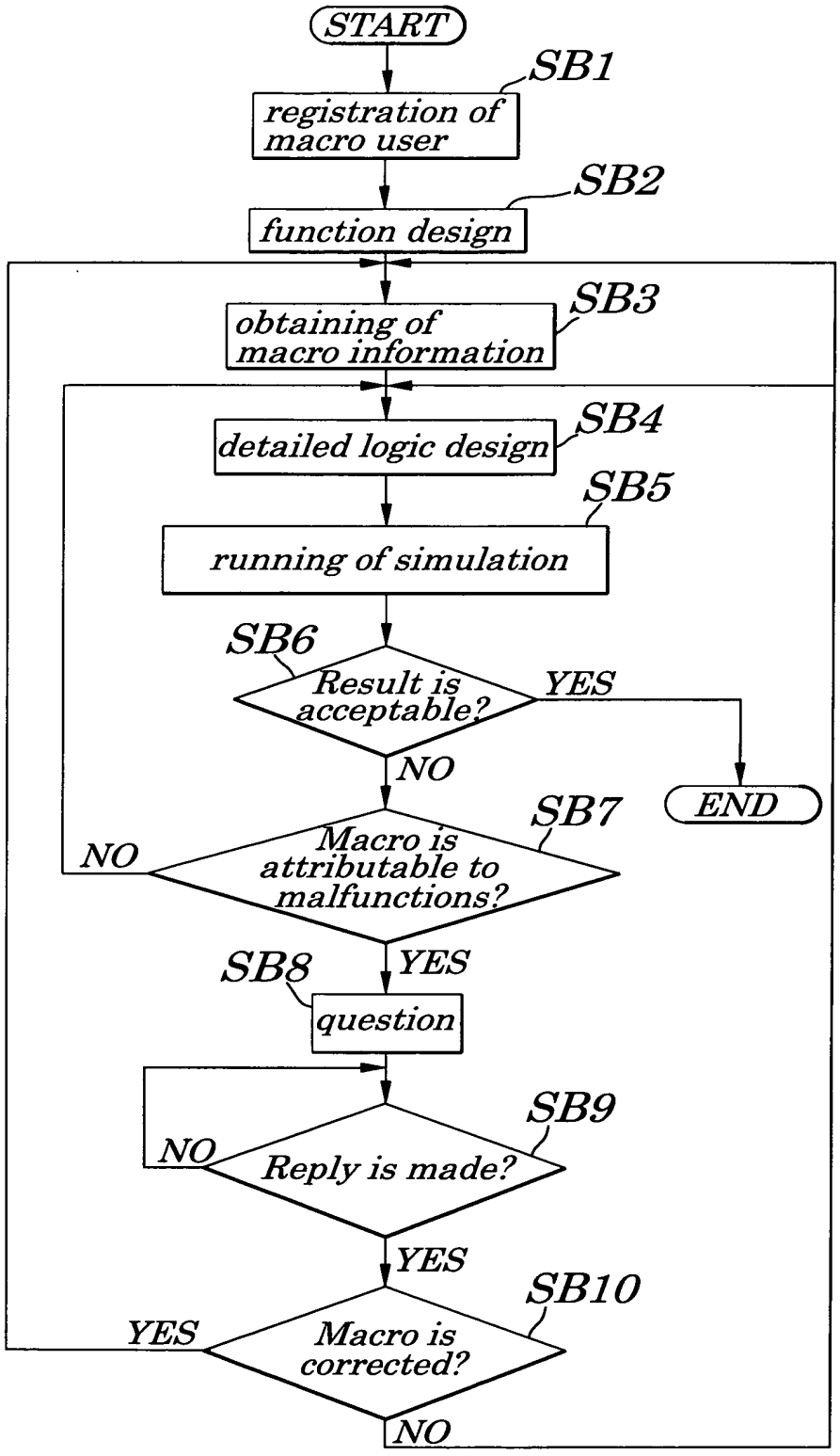
START
SB1
registration of macro user
SB2
function design
SB3
obtaining of macro information
SB4
detailed logic design
SB5
running of simulation
SB6
Result is acceptable?
YES
NO
END
SB7
Macro is attributable to malfunctions?
NO
YES
SB8
question
SB9
Reply is made?
NO
YES
SB10
Macro is corrected?
YES
NO

FIG.16

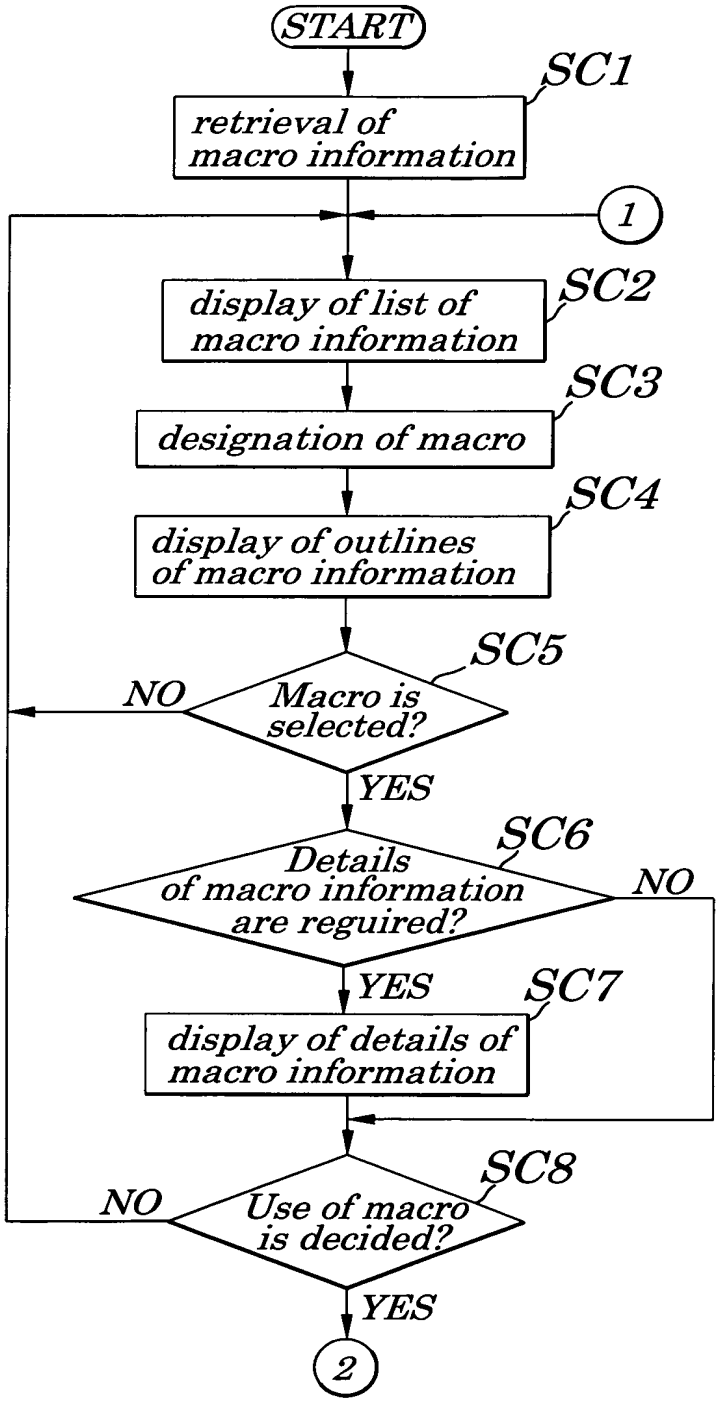
START
SC1
retrieval of macro information
1
SC2
display of list of macro information
SC3
designation of macro
SC4
display of outlines of macro information
SC5
NO
Macro is selected?
YES
SC6
Details of macro information are reguired?
NO
YES
SC7
display of details of macro information
SC8
NO
Use of macro is decided?
YES
2

FIG.17

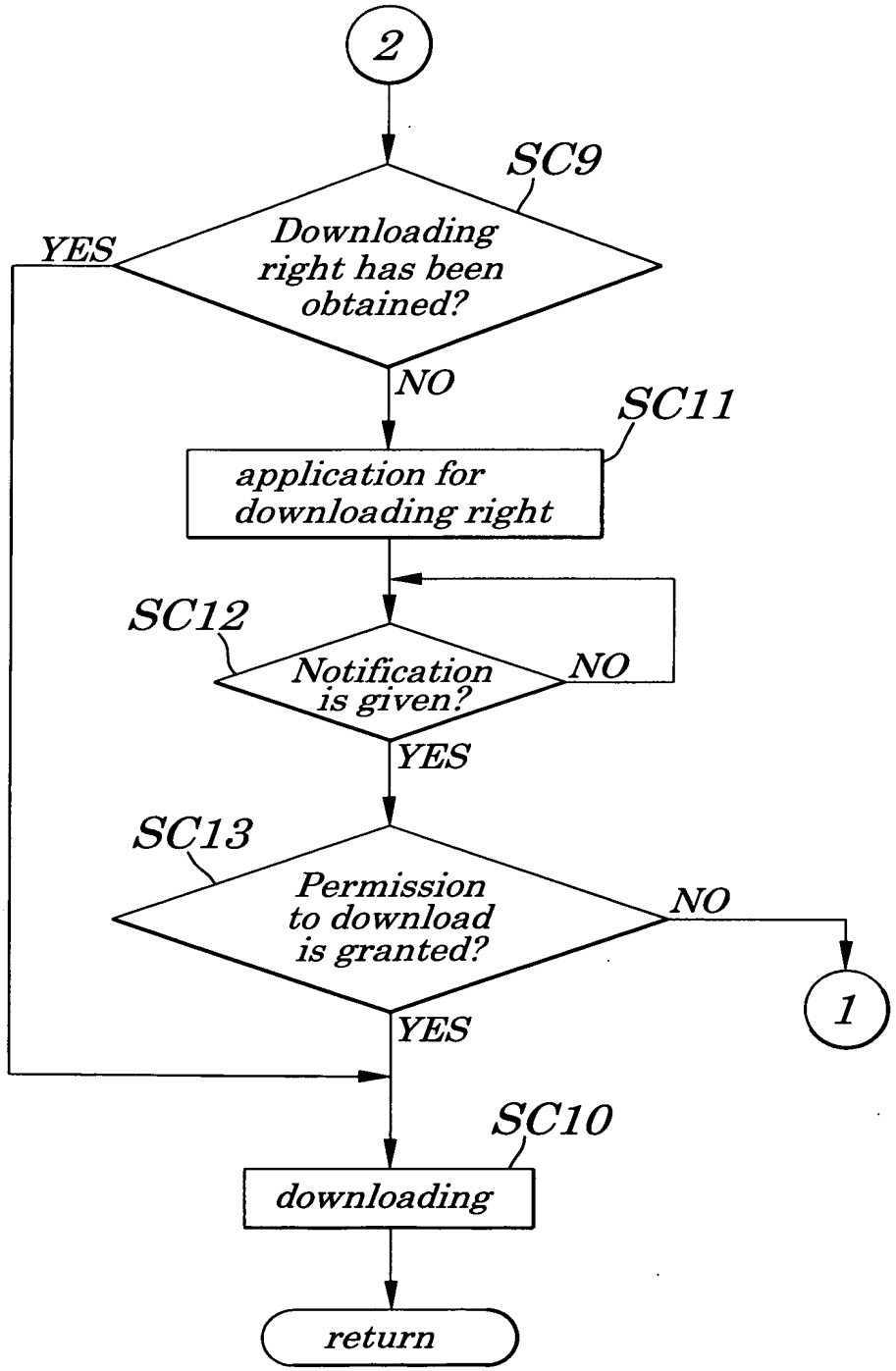
2
SC9
Downloading right has been obtained?
YES
NO
SC11
application for downloading right
SC12
Notification is given?
NO
YES
SC13
Permission to download is granted?
NO
1
YES
SC10
downloading
return

FIG.18

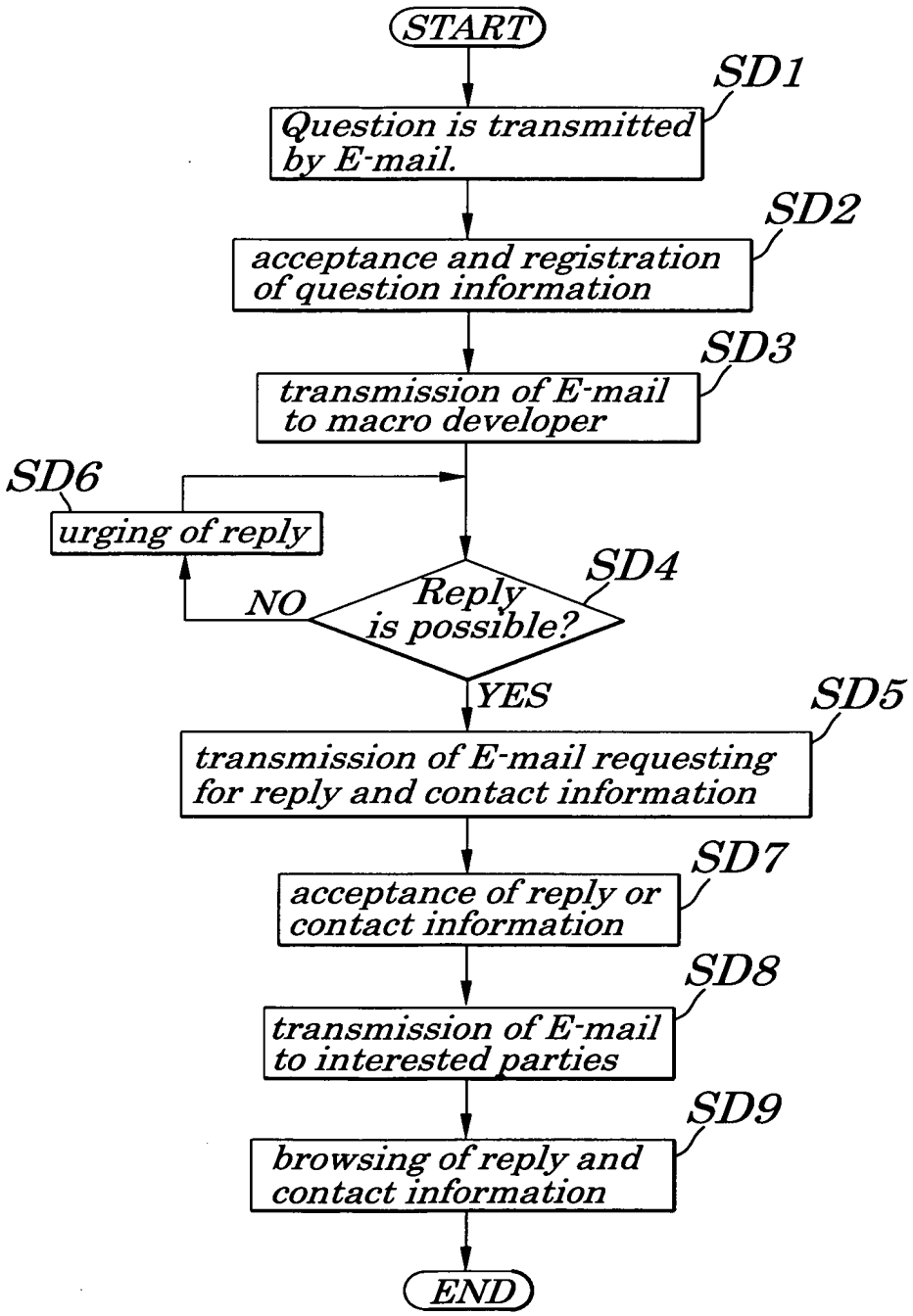

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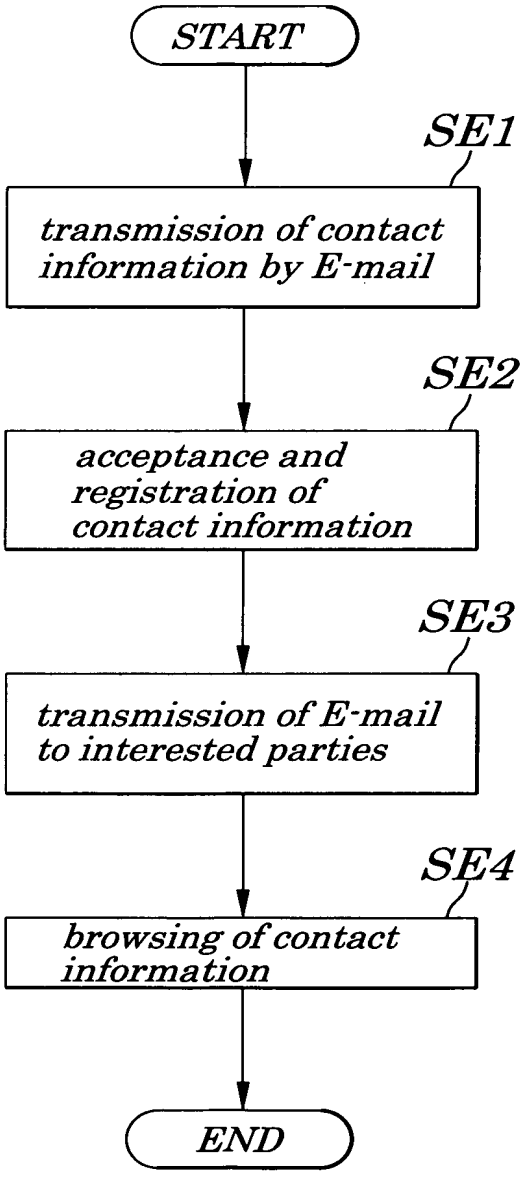
FIG.19


START
SE1
transmission of contact information by E-mail
SE2
acceptance and registration of contact information
SE3
transmission of E-mail to interested parties
SE4
browsing of contact information
END